

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 8. (Canceled).

9. (Previously Presented) A sensor for determining a concentration of particles in gases, comprising:

at least one substrate element;

a first measuring electrode; and

a second measuring electrode, wherein there is a measuring area between the first measuring electrode and the second measuring electrode, wherein the first and second measuring electrodes are arranged so that by applying a voltage between the measuring electrodes an asymmetric electric field is formed on the measuring area; wherein the first and second measuring electrodes each include finger electrodes that are interdigitated to form an interdigital comb structure, and wherein at least one of the measuring electrodes includes finger electrodes having varying widths.

10. (Previously Presented) The sensor of claim 9, wherein sides of the first and second measuring electrodes, facing one another, are not parallel to one another.

11. (Previously Presented) The sensor of claim 9, wherein a distance between the first and second measuring electrodes one of increases and decreases continuously along the electrodes.

Claim 12. (Canceled).

13. (Currently Amended) The sensor of claim 9, wherein one of the following is satisfied: (i) at least one of the measuring electrodes has a ~~triangle-form~~ triangular cross-section; and (ii) the finger electrodes of at least one of the measuring electrodes ~~has the triangle-form~~ have a triangular cross-section.

14. (Currently Amended) The sensor of claim 9, wherein at least one measuring electrode has ~~one of (i) a raised pattern along a side facing the other measuring electrode, and (ii) a raised pattern along the finger electrodes.~~

15. (Previously Presented) The sensor of claim 14, wherein the raised pattern is formed by at least one of tips, squares, dots, and geometric shapes that are regularly arranged.

16. (Previously Presented) The sensor of claim 9, wherein at least one central electrode is provided between the first measuring electrode and the second measuring electrode.

17. (Previously Presented) The sensor of claim 9, wherein the particles include soot particles.